



# UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office  
Address: COMMISSIONER FOR PATENTS  
P.O. Box 1450  
Alexandria, Virginia 22313-1450  
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/551,547	04/18/2000	Takanobu Ihara	040373/0280	2187
22428	7590	01/27/2006	EXAMINER	
FOLEY AND LARDNER LLP SUITE 500 3000 K STREET NW WASHINGTON, DC 20007			GESESSE, TILAHUN	
			ART UNIT	PAPER NUMBER
			2684	

DATE MAILED: 01/27/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

<b>Office Action Summary</b>	<b>Application No.</b> 09/551,547	<b>Applicant(s)</b> IHARA, TAKANOBU	
	<b>Examiner</b> Tilahun B. Gesesse	<b>Art Unit</b> 2684	

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --**

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☒ Responsive to communication(s) filed on 03 November 2005.
- 2a) ☐ This action is **FINAL**.                      2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 1,2,4 and 6-28 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1,2,4 and 6-11 is/are rejected.
- 7) ☒ Claim(s) 12-28 is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All    b) ☐ Some \* c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- |  |   |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)  | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                                   | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)             |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)<br>Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____  |

## **DETAILED ACTION**

### **Status of claims**

1. This is in response to applicant's amendment and response filed November 3, 2005, in which claims 3 and 5 have been deleted and claims 1-2, 4,6-28 are pending.

### ***Response to Arguments***

2. Applicant's arguments with respect to claims 1-2,4,6-11 have been considered but are moot in view of the new ground(s) of rejection.

### ***Claim Rejections - 35 USC § 103***

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

4. Claims 1-2,4,6-11 are rejected under 35 U.S.C. 103(a) as being unpatentable over Mitsuo (US patent No. 5,577,902) in view of Arai (US patent No. 5,517,551) and further view of Clise et al (US patent No. 5,797,091)"Clise".

Claims 1 and 4 Mitsuo discloses a private branch exchange system (figure 1) a plurality of mobile stations each having a plurality of extension numbers (008b, 008a, 006d of figure 1) a base station (radio extension interfaces (007 of figure 1) wirelessly connected to said plurality of mobile stations (008b and 008a) and an exchange station for performing call control of said plurality of Mobile stations through said base station (100 of figure 1 and abstract and column 3 line 42-column 4, lines3).

Art Unit: 2684

Mitsuo differs in teaching a plurality of different line keys physically present thereon for selecting among a one of said plurality of extension numbers. However, Arai teaches a plurality of different line keys physically present thereon for selection among ' an one of said plurality of extension numbers ( see abstract , column 7, lines 38-43, column 10, line 62- column 1 1, line 7 and figure 13). Arai further more, teaches plurality of different line keys being separate and distinct from the number keypad (see column 3, lines 1-16 and figure 3). Mitsuo and Arai both teach private telephone exchange with plurality of radio units, then it would have been obvious to a person of ordinary skill in the art at the time of the invention was made to select among plurality of extension numbers, as evidenced by Arai, for physically connected the desired extension number on a mobile station to make or answer a call whenever, the user is away from his or her desk or office.

Mitsuo and Arai do not teach actuate by the operator a number of different functionality keys. However, Clise teaches a mobile station ,which has programmable buttons, whose functions can be designated by the user and a number of distinct keys (such as family , auto button and medic button (12c, 12d and 12e) see column 5, lines 1-50 and figure 3). Mitsuo , Arai and Clise all teach dialing technique, then, it would have been obvious to an artisan of ordinary skill in the art at the time of the invention was made to use different line keys actuate by the user, as disclosed by Clise , in order operate the mobile device in fast mode and get service in matter of second and avoid the old type of dialing and memorizing individuals phone numbers.

Art Unit: 2684

Claim 2, Mitsuo discloses at least one of the plurality of extension numbers set for the plurality of mobile stations is a unique extension number for each of said plurality of mobile stations (abstract).

Claim 4, Mitsuo discloses a private branch exchange system (figure 1) a plurality of mobile stations each having a plurality of extension numbers ( 008b, 008a, 006d of figure 1) a base station (radio extension interfaces (007 of figure 1) wirelessly connected to said plurality of mobile stations (008b and 008a) and an exchange station for performing call control of said plurality of Mobile stations through said base station (100 of figure 1 and abstract and column 3 line 42-column 4, lines3). Mitsuo differs in teaching a plurality of different line keys physically present thereon for selecting among an one of said plurality of extension numbers. However, Arai teaches a plurality of different line keys physically present thereon for selection among ' an one of said plurality of extension numbers ( see abstract , column 7, lines 38-43, column 10, line 62- column 11, line 7 and figure 13). Arai further more, teaches plurality of different line keys being separate and distinct from the number keypad (see column 3, lines 1-16 and figure 3). Mitsuo and Arai both teach private telephone exchange with plurality of radio units, then it would have been obvious to a person of ordinary skill in the art at the time of the invention was made to select among plurality of extension numbers, as evidenced by Arai, for physically connected the desired extension number on a mobile station to make or answer a call whenever, the user is away from his or her desk or office.

Mitsuo and Arai do not teach actuate by the operator a number of different functionality keys. However, Clise teaches a mobile station ,which has programmable

Art Unit: 2684

buttons, whose functions can be designated by the user and a number of distinct keys (such as family , auto button and medic button (12c, 12d and 12e) see column 5, lines 1-50 and figure 3). Mitsuo , Arai and Clise all teach dialing technique, then, it would have been obvious to an artisan of ordinary skill in the art at the time of the invention was made to use different line keys actuate by the user, as disclosed by Clise , in order operate the mobile device in fast mode and get service in matter of second and avoid the old type of dialing and memorizing individuals phone numbers.

Claim 6. Mitsuo discloses at least one of the plurality of extension numbers set for the plurality of mobile stations is a unique extension number for each of the plurality of mobile stations (abstract).

Claims 7-1 1, Mitsuo discloses the plurality of mobile stations each have line key buttons for setting the plurality of lines (figure 1).

### ***Allowable Subject Matter***

5. Claims 12-28 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

The following is a statement of reasons for the indication of allowable subject matter: the prior art does not expressly teach a data managing section for managing information for each of said plurality of extension numbers; a line state managing

section for managing a state of each of said plurality of lines; and a line state control section for sending a direction for performing call control to said call control section based on the information for each extension number managed by said data managing section and the state of the line managed by said line state managing section, wherein said call control section performs call control of said plurality of mobile sections based on the direction sent from said line state control section.

### **Conclusion**

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tilahun B Gesesse whose telephone number is 571-272-7879. The examiner can normally be reached on flex.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nay Maung can be reached on 571-272-7882.

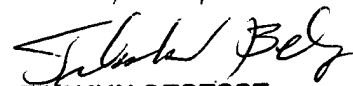
The Central FAX Number will change to 571-273-8300. This new Central FAX Number is the result of relocating the Central FAX server to the Office's Alexandria, Virginia campus.

**CENTRALIZED DELIVERY POLICY:** For patent related correspondence, hand carry deliveries must be made to the Customer Service Window (now located at the Randolph Building, 401 Dulany Street, Alexandria, VA 22314), and facsimile transmissions must be sent to the Central FAX number, unless an exception applies.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information

Art Unit: 2684

for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

1/17/06  
  
TILAHUN GESESSE  
PRIMARY EXAMINER